

# **Illinois EPA Livestock Program 2001 Livestock Facility Investigation Annual Report**

produced  
by

Bureau of Water  
Division of Water Pollution Control  
Field Operations Section

**Illinois EPA Livestock Program  
2001 Livestock Facility Investigation Annual Report**

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Information for this report is gathered from the following Sections within the Bureau of Water - Compliance Assurance Section, Water Pollution Control/Field Operations Section, and Water Pollution Control/ Permits Section.

Information is also gathered from the Agency=s Division of Legal Counsel.

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**Section I: General Information**

1. Total number of facilities surveyed during 2001.....240
2. Number of facilities contacted for the first time during 2001.....121
3. Total number of on-site visits conducted during 2001 .....469
4. Number of on-site follow-up surveys conducted in 2001 .....235
5. Number of facilities contacted/visited raising or boarding the following types of livestock:
  - Beef ..... 36
  - Dairy ..... 48
  - Swine ..... 114
  - Poultry ..... 3
  - Sheep ..... 0
  - Equine ..... 9
  - Other..... 3
6. Number of operations contacted in 2001 where more than one type of livestock were raised or boarded - 27
7. Number of facilities contacted/visited falling within each of the following categories in terms of NPDES defined animal units:
  - <50.....22
  - 50-100 .....25
  - 100-300 .....64
  - 300-1000 .....73
  - 1000-7000 .....53
  - >7000.....3
8. Number of facilities observed in 2001 using one or more of the following waste storage structures:
  - Lagoons ..... 75
  - Holding Ponds ..... 10
  - Pit (beneath slats) ..... 111
  - In ground tank ..... 13
  - Above ground tank ..... 14
  - Other ..... 38
  - None..... 63
9. Average number of lagoons and/or holding ponds at facilities using these types of waste storage structures - 2.1
10. Total number of lagoons and holding ponds observed during on-site surveys of livestock facilities in 2001 - 180

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11. Number of facilities observed in 2001 using one or more of the following livestock waste storage structures tabulated by facility type:

Structures	Beef	Dairy	Swine	Poultry	Sheep	Equine	Other	Combined	Total
Lagoons	4	11	54	0	0	0	0	6	75
Holding Ponds	2	5	1	0	0	0	0	2	10
Pits (beneath slats)	3	0	90	2	0	0	0	16	111
In ground tank	1	5	5	0	0	0	0	2	13
Above ground tank	1	7	3	0	0	0	0	3	14
Other	3	13	12	2	0	0	0	8	38
None	23	15	5	0	0	9	3	8	63

12. Number of facilities observed in 2001 using one or more of the following livestock waste storage structures tabulated by facility size:

Structure	NPDES Animal Units						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Lagoons	0	1	12	35	26	1	75
Holding Ponds	1	1	5	2	1	0	10
Pit (beneath slats)	1	1	21	46	39	3	111
In ground tank	0	0	8	2	3	0	13
Above ground tank	0	0	7	3	4	0	14
Other	0	3	15	11	8	1	38
None	20	20	14	8	1	0	63

13. Number of facilities observed using one or more of the following livestock operations during on-site surveys in 2001:

Total confinement building.....	144
Open front confinement units .....	46
Open concrete feedlot .....	88
Open earthen feedlot.....	65
Vegetated pasture .....	46
Other .....	3
Total .....	392

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14. Facilities using open front confinement units and/or open concrete or earthen feedlots observed during 2001 without a livestock waste storage structure where even a concrete settling basin was not in place - 47
15. Number and percent of livestock facilities surveyed during 2001 where clean surface water needs to be diverted away from the facility - 98 (40%)

**Section II: Regulatory Violations**

16. Number of facilities characterized as having the following regulatory violations during 2001:

Water Quality Standards (Subtitle C).....	39
Effluent Standards (Subtitle C).....	25
Air Emissions .....	23
New Facility Location (501.402).....	1
Runoff Control Requirements (501.403) .....	76
Handling/Storage Requirements (501.404) .....	58
Field Application Criteria (560).....	19
NPDES Permit Provision .....	0
No NPDES Permit .....	20
No Violation Occurred.....	115
Other.....	12

17. Number and percent of the livestock facilities contacted/visited having one or more regulatory violations in 2001 - 125 (52%)
18. Number and percent of livestock facilities contacted/visited having no regulatory violations in 2001 - 115 (47%)
19. Tabulation of the number and percent of each type of facility contacted/visited having one or more regulatory violations in 2001:

Type	No. Contacted	No. With Violations	Percent With Violations
Beef	36	27	75%
Dairy	48	32	66%
Swine	114	45	39%
Poultry	3	0	0%
Sheep	0	0	0%
Equine	9	5	55%
Other	3	1	33%
Combined	27	16	59%

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20. Tabulation of the number and percent of each type of facility contacted/visited that caused no pollution problem or regulatory violations in 2001:

Type	No. Contacted	No. With No Problems	Percent With No Problems
Beef	36	9	25%
Dairy	48	16	33%
Swine	114	69	60%
Poultry	3	3	100%
Sheep	0	0	0%
Equine	9	4	44%
Other	3	2	66%
Combined	27	11	40%

**Section III: Water Pollution**

21. Total number of livestock facilities generating water pollution complaints during 2001 - 71\*

22. Percent of unsubstantiated water pollution complaints - 25%

23. Tabulation of the number of livestock facilities by size and animal type generating water pollution complaints during 2001:

Type	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Beef	5	5	2	6	0	0	18
Dairy	0	1	5	6	1	0	13
Swine	2	1	5	7	9	1	25
Poultry	0	0	0	0	0	0	0
Sheep	0	0	0	0	0	0	0
Equine	4	2	0	0	0	0	6
Other	2	0	0	0	0	0	2
Combined	0	1	2	3	1	0	7
Total	13	10	14	22	11	1	71

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24. Sources of water pollution problems observed in 2001 tabulated by animal type:

Sources	Beef	Dairy	Swine	Poultry	Sheep	Equine	Other	Combined	Total
Feedlot runoff	17	23	12	0	0	0	1	10	63
Pit discharge	1	0	5	0	0	0	0	2	8
Lagoon/HP overflow	3	3	8	0	0	0	0	2	16
Intentional discharge/dumping	1	3	2	0	0	0	0	1	7
Tile connection	1	1	0	0	0	0	0	0	2
Manure stack	5	5	0	0	0	2	0	1	13
Field application	5	3	9	0	0	1	0	0	18
Irrigation equipment failure	0	0	3	0	0	0	0	0	3
Other	2	6	9	0	0	1	0	4	22
No Problem Existed	14	17	75	3	0	6	2	12	129

25. Sources of water pollution observed in 2001 tabulated by facility size:

Sources	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Feedlot	5	15	27	11	5	0	63
Pit discharge	0	0	3	4	1	0	8
Lagoon/HP overflow	0	0	3	11	2	0	16
Intentional discharge/dumping	0	2	2	3	0	0	7
Tile connection	0	0	0	2	0	0	2
Manure stack	1	6	3	1	2	0	13
Field application	1	3	3	4	7	0	18
Irrigation equipment failure	0	0	0	1	2	0	3
Other	1	1	10	3	7	0	22
No Problem Existed	14	7	25	45	35	3	129

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**Section IV: Odor/Air Pollution**

26. Total number of livestock facilities generating odor complaints during 2001 - 58 \*

27. Percent of unsubstantiated odor complaints - 29%

28. Tabulation of the number of livestock facilities by size and animal type generating odor complaints during 2001:

Type	NPDES Animal Units						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Beef	3	3	4	1	0	0	11
Dairy	0	0	3	1	1	0	5
Swine	1	0	1	12	16	1	31
Poultry	0	0	0	0	1	0	1
Sheep	0	0	0	0	0	0	0
Equine	4	0	0	0	0	0	4
Other	2	0	0	0	0	0	2
Combined	2	0	1	0	1	0	4
Total	12	3	9	14	19	1	58

29. Sources of odor pollution problems observed in 2001 tabulated by animal types:

Sources	Beef	Dairy	Swine	Poultry	Sheep	Equine	Other	Combined	Total
Field application	5	2	17	0	0	0	0	1	25
Manure stack	4	1	0	0	0	3	0	1	9
Lagoon/holding pond	0	1	4	0	0	0	0	0	5
Feedlot	3	0	1	0	0	0	1	0	5
Agitation/manure handling	1	0	2	0	0	0	0	0	3
Confinement building/pit	0	0	10	0	0	0	0	0	10
Other	1	0	4	0	0	0	0	1	6
No Problem	27	46	87	3	0	6	2	24	195

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30. Sources of odor pollution problems observed in 2001 tabulated by facility size:

Sources	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Field application	0	3	4	6	12	0	25
Manure stack	5	1	1	1	1	0	9
Lagoon/holding pond	0	0	0	1	4	0	5
Feedlot	3	0	1	1	0	0	5
Agitation/manure handling	0	0	0	1	2	0	3
Confinement building/pit	0	0	0	3	7	0	10
Other	1	0	1	3	1	0	6
No Problem	13	22	58	62	37	3	195

**Section V: Facilities Referred to Illinois Department of Agriculture**

31. Number and percent of facilities referred to the Illinois Department of Agriculture regarding either dead animal disposal or potential LMFA violations in 2001 - 6 (2%)

**Section VI: Enforcement Activities**

32. Number and percent of facilities sent a Noncompliance Advisory Letter (NCA) by the Illinois EPA in 2001 - 60\*\* (25%)

33. Tabulation of the number of facilities by size and animal type receiving NCA letters in 2001:

Type	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Beef	1	5	4	2	2	0	14
Dairy	0	6	13	2	0	0	21
Swine	2	1	5	3	3	0	14
Poultry	0	0	0	0	0	0	0
Sheep	0	0	0	0	0	0	0
Equine	1	2	0	0	0	0	3
Other	1	0	0	0	0	0	1
Combined	0	2	3	1	1	0	7
Total	5	16	25	8	6	0	60

34. Number and percent of facilities sent a Violation Notice Letter (VN) by the Illinois EPA in 2001: - 9\*\* (3%)

35. Tabulation of the number of facilities by size and animal type receiving Violation Notice

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letters in 2001:

Type	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Beef	0	0	0	1	0	0	1
Dairy	0	0	2	1	1	0	4
Swine	0	0	0	0	3	0	3
Poultry	0	0	0	0	0	0	0
Sheep	0	0	0	0	0	0	0
Equine	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Combined	0	0	1	0	0	0	1
Total	0	0	3	2	4	0	9

36. Number and percent of facilities sent a Notice of Intent to Refer Letter (NOIR) by the Illinois EPA in 2001 - 1\*\* (0%)

37. Tabulation of the number of facilities by size and animal type receiving Notice of Intent to Refer letters in 2001:

Type	<u>NPDES Animal Units</u>						Total
	<50	50-100	100-300	300-1000	1000-7000	>7000	
Beef	0	0	0	0	0	0	0
Dairy	0	0	0	0	0	0	0
Swine	0	0	1	0	0	0	1
Poultry	0	0	0	0	0	0	0
Sheep	0	0	0	0	0	0	0
Equine	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Combined	0	0	0	0	0	0	0
Total	0	0	1	0	0	0	1

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38. Number and percent of facilities where a case was referred to the Attorney General=s Office in 2001 - 7\*\* (3%)

39. Tabulation of the number of facilities by size and animal type where a case was referred to the Attorney General=s Office.

NPDES Animal Units

Type	<50	50-100	100-300	300-1000	1000-7000	>7000	Total
Beef	0	1	0	1	0	0	2
Dairy	0	0	0	0	0	0	0
Swine	0	0	1	2	0	0	3
Poultry	0	0	0	0	0	0	0
Sheep	0	0	0	0	0	0	0
Equine	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Combined	0	0	0	2	0	0	2
Total	0	1	1	5	0	0	7

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## **Section VII: Measures Taken in 2001 to Correct Pollution Problems**

### 40. Frequency of implementing various management techniques in 2001:

New settling basin .....	2
New lagoon/holding pond.....	2
New pit.....	0
New manure storage structure .....	1
New or improved irrigation system.....	2
Storm water diversions or terraces.....	15
Vegetative filter .....	10
Guttering .....	9
Raised berms or modified lagoons .....	3
Written plans and specs .....	6
Cleaned feedlots more frequently .....	7
Hired a commercial hauler.....	3
Repaired field tile/closed inlets .....	2
Moved fences.....	1
Relocated feedlot.....	4
New application equipment.....	2
Changed application site.....	6
Incorporation or injection .....	7
Reduced herd size.....	4
Went out of business .....	13
Revegetated Pasture/rotate grazing.....	4
Other practice implemented.....	42
No effort made to correct problem.....	20
No Problem existed .....	102
Unknown .....	35

\* Actual number of complaints fielded may be higher. This total does not reflect a single facility that may generate multiple complaints or cause more than one pollution incident. The total is facilities generating at least one complaint.

\*\* Number of facilities receiving letters or referred only. Actual number of referrals or letters may be higher due to single facilities receiving multiple letters or referrals.

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**Section VIII: List of Attachments**

- Attachment 1 - 2001 livestock related fish kill data
- Attachment 2 - 2001 livestock facilities receiving enforcement letters and facilities referred to the Attorney General tabulated by county
- Attachment 3 - List of livestock facilities for which NPDES Permits were issued in 2001 (Information from DWPC Permit Section)
- Attachment 4 - List of livestock facilities for which Tax Certifications were issued in 2001 (Information from DWPC Permit Section)
- Attachment 5 - Summary of select 2001 data tabulated by county

**ATTACHMENT 1**  
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**Livestock Related Fishkill Data**

County	Discharge ID	Assessed Value (\$)
Henderson	LCD/071/AS/2	\$0.00
Iroquois	FLIC/075/AR/7	\$2,073.47
Peoria	DZ/143/BB/2	\$1,310.21
Wayne	CC/191/JA/2	\$1,291.46
Woodford	DK/203/BM/2	\$0.00
	Total	\$4675.14

**ATTACHMENT 2**  
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**Livestock Facilities Receiving Enforcement Letters**  
**And Facilities Referred to the Attorney General Tabulated by County\*\***

County	Noncompliance Advisory Letter Sent	Violation Notice Letter Sent	Notice of Intent to Refer Letter	Referred to Attorney General
Adams	2	1	0	1
Alexander	No Visits			
Bond	1	0	0	0
Boone	1	0	0	0
Brown	No Visits			
Bureau	0	1	0	0
Calhoun	No Visits			
Carroll	1	0	0	0
Cass	0	0	0	0
Champaign	1	0	0	0
Christian	0	0	0	0
Clark	1	0	0	0
Clay	2	0	0	0
Clinton	4	2	0	1
Coles	No Visits			
Cook	No Visits			
Crawford	0	0	0	0
Cumberland	3	0	0	0
DeKalb	1	0	0	0
DeWitt	No Visits			
Douglas	No Visits			
DuPage	No Visits			
Edgar	0	0	0	0
Edwards	No Visits			
Effingham	2	1	0	0
Fayette	No Visits			
Ford	1	0	0	0
Franklin	0	0	0	0
County	Noncompliance Advisory Letter Sent	Violation Notice Letter Sent	Notice of Intent to Refer Letter	Referred to Attorney General
Fulton	2	0	0	0

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**And Facilities Referred to the Attorney General Tabulated by County\*\***

Gallatin	No Visits			
Greene	2	0	0	0
Grundy	No Visits			
Hamilton	0	0	0	0
Hancock	0	0	0	1
Hardin	No Visits			
Henderson	0	0	0	1
Henry	0	0	0	1
Iroquois	0	1	0	0
Jackson	2	0	0	0
Jasper	1	0	0	0
Jefferson	0	0	0	0
Jersey	No Visits			
JoDaviess	16	0	0	0
Johnson	0	0	0	0
Kane	No Visits			
Kankakee	0	0	0	0
Kendall	0	0	0	0
Knox	0	1	0	0
Lake	1	0	0	0
LaSalle	No Visits			
Lawrence	No Visits			
Lee	0	0	0	0
Livingston	1	0	0	0
Logan	0	0	0	0
Macon	1	0	0	0
Macoupin	0	0	0	0
County	Noncompliance Advisory Letter Sent	Violation Notice Letter Sent	Notice of Intent to Refer Letter	Referred to Attorney General
Madison	0	0	0	0
Marion	No Visits			
Marshall	No Visits			
Mason	No Visits			

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Massac	0	0	0	0
McDonough	0	0	0	0
McHenry	No Visits			
McLean	1	0	0	0
Menard	0	0	0	0
Mercer	1	0	0	0
Monroe	1	0	0	0
Montgomery	No Visits			
Morgan	0	0	0	0
Moultrie	No Visits			
Ogle	1	0	0	0
Peoria	1	0	0	0
Perry	0	0	0	0
Piatt	0	0	0	0
Pike	0	0	0	1
Pope	No Visits			
Pulaski	0	0	1	0
Putnam	No Visits			
Randolph	No Visits			
Richland	No Visits			
Rock Island	No Visits			
Saline	No Visits			
Sangamon	0	0	0	0
County	Noncompliance Advisory Letter Sent	Violation Notice Letter Sent	Notice of Intent to Refer Letter	Referred to Attorney General
Schuyler	0	0	0	0
Scott	0	0	0	0
Shelby	1	0	0	0
Stark	No Visits			
St. Clair	No Visits			
Stephenson	3	0	0	0
Tazewell	0	0	0	0
Union	0	0	0	0

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**And Facilities Referred to the Attorney General Tabulated by County\*\***

Vermilion	0	0	0	0
Wabash	No Visits			
Warren	1	0	0	0
Washington	2	0	0	0
Wayne	1	1	0	0
White	0	0	0	0
Whiteside	1	1	0	0
Will	No Visits			
Williamson	No Visits			
Winnebago	0	0	0	0
Woodford	0	0	0	1
Total	60	9	1	7

\*\* Number of facilities receiving letters or referred only. Actual number of referrals or letters may be higher due to single facilities receiving multiple letters or referrals.

**ATTACHMENT 3**  
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**List of NPDES Permits**  
**Issued for Livestock Facilities in 2001**

Facility	County	NPDES Number	Date Issued	Expiration Date
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No Permits were Issued in 2001

**ATTACHMENT 4**  
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**List of Tax Certifications**  
**Issued for Livestock Facilities in 2001<sup>@</sup>**

Name	County	Docket Number	Certification Date
Sangamon Prairie Pork Farm	Sangamon	PCB01 - 13	May 3, 2001
Hog Haven, LLC	Lee	PCB01 - 13	May 3, 2001
Shinn Lane Production, LLC	Pike	PCB01 - 67	December 6, 2001
J & J Farms	Pike	PCB01 - 66	December 6, 2001
Borrowman, Dan & Jackie	Pike	PCB01 - 74	December 20, 2001
Fairview Acres, Inc.	Logan	PCB01 - 69	December 20, 2001

Total: 6 Certifications

<sup>@</sup> Procedure for obtaining Tax Certification for Pollution Control Facilities was changed during 2000. Effective January 1, 2001, all Certifications are granted or denied by the Illinois Pollution Control Board. A facility still sends the Tax Certification application to the Agency for review and the Agency then forwards the application to the Illinois Pollution Control Board along with a recommendation on what action the Board should take. Additional information can be found in 35 Illinois Administrative Codes, Subtitle A, Part 125: Tax Certifications.

**ATTACHMENT 5**  
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**Summary of Investigation Data**  
**Tabulated by County**

<b>County</b>	<b>Number of Facilities Contacted</b>	<b>Number of Total Visits</b>	<b>*Facilities With Water Complaints</b>	<b>*Facilities With Odor Complaints</b>
Adams	8	12	5	1
Alexander	No Visits			
Bond	1	1	1	0
Boone	1	2	0	0
Brown	No Visits			
Bureau	1	1	1	0
Calhoun	No Visits			
Carroll	2	2	0	1
Cass	1	1	0	0
Champaign	1	2	1	0
Christian	5	9	0	4
Clark	2	1	2	2
Clay	2	2	1	0
Clinton	18	25	8	4
Coles	No Visits			
Cook	No Visits			
Crawford	2	3	1	1
Cumberland	8	9	1	0
DeKalb	10	12	1	0
DeWitt	No Visits			
Douglas	No Visits			
DuPage	No Visits			
Edgar	1	1	1	1
Edwards	No Visits			
Effingham	13	14	3	0
Fayette	No Visits			
Ford	2	1	1	1
Franklin	2	2	0	0
Fulton	3	6	1	0
Gallatin	No Visits			

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<b>County</b>	<b>Number of Facilities Contacted</b>	<b>Number of Total Visits</b>	<b>*Facilities With Water Complaints</b>	<b>*Facilities With Odor Complaints</b>
Greene	7	9	1	3
Grundy	No Visits			
Hamilton	3	3	0	0
Hancock	7	15	0	2
Hardin	No Visits			
Henderson	2	9	1	1
Henry	2	3	1	1
Iroquois	2	4	0	0
Jackson	3	6	2	1
Jasper	2	2	0	0
Jefferson	4	5	1	0
Jersey	No Visits			
JoDaviess	20	27	2	0
Johnson	1	1	0	0
Kane	No Visits			
Kankakee	2	4	1	0
Kendall	1	2	0	0
Knox	4	28	1	1
Lake	1	1	1	0
LaSalle	No Visits			
Lawrence	No Visits			
Lee	1	1	0	1
Livingston	2	3	1	2
Logan	3	4	2	3
Macon	1	1	1	1
Macoupin	4	6	1	2
Madison	1	1	0	0
Marion	No Visits			
Marshall	No Visits			
Mason	No Visits			
Massac	2	2	1	0

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**Summary of Investigation Data**  
**Tabulated by County**

<b>County</b>	<b>Number of Facilities Contacted</b>	<b>Number of Total Visits</b>	<b>*Facilities With Water Complaints</b>	<b>*Facilities With Odor Complaints</b>
McDonough	6	14	1	0
McHenry	No Visits			
McLean	8	7	3	6
Menard	1	1	1	0
Mercer	3	7	2	0
Monroe	1	1	1	0
Montgomery	No Visits			
Morgan	2	2	0	1
Moultrie	No Visits			
Ogle	1	2	1	0
Peoria	3	101	2	2
Perry	2	3	1	0
Piatt	1	1	0	0
Pike	6	16	1	3
Pope	No Visits			
Pulaski	1	1	0	0
Putnam	No Visits			
Randolph	No Visits			
Richland	No Visits			
Rock Island	No Visits			
Saline	No Visits			
Sangamon	8	8	4	5
Schuyler	1	3	0	1
Scott	1	3	0	0
Shelby	3	3	0	0
Stark	No Visits			
St. Clair	No Visits			
Stephenson	5	10	1	1
Tazewell	1	1	0	1
Union	1	1	0	0
Vermilion	1	2	1	1

**ATTACHMENT 5**  
**Illinois EPA Livestock Program**  
**2001 Livestock Facility Investigation Annual Report**  
**Summary of Investigation Data**  
**Tabulated by County**

<b>County</b>	<b>Number of Facilities Contacted</b>	<b>Number of Total Visits</b>	<b>*Facilities With Water Complaints</b>	<b>*Facilities With Odor Complaints</b>
Wabash	No Visits			
Warren	2	2	0	1
Washington	6	6	1	0
Wayne	8	9	1	1
White	3	3	0	0
Whiteside	1	4	1	1
Will	No Visits			
Williamson	No Visits			
Winnebago	2	4	2	1
Woodford	4	11	2	0
***TOTAL***	240	469	71*	58*

\* Actual number of complaints fielded may be higher. This total does not reflect a single facility that may generate multiple complaints or cause more than one pollution incident. The total is facilities generating at least one complaint.